

INTEROPERABILITY: LAB & EHR INTEGRATION

A ViSolve, Inc. Case Study

A system integrator in Virginia selects ViSolve Healthcare IT to integrate their hosted EHR environment with a leading laboratory in the U.S.

COMPANY PROFILE

The customer, a system integrator in Virginia, U.S., offers OpenEMR as a cloud hosted service. The customer had a number of doctors using the EHR through the hosted service. The customer also functions as a technical support team to assist the doctors in customizing OpenEMR to suit their facility needs.

BUSINESS CHALLENGE

The front office staff at the doctor facility had to manually enter the lab results from the lab report into the EHR system. This resulted in erroneous data being entered into the system, as well as greater time consumption towards data entry and less time for patient care.

The customer also was faced with the challenge of meeting the regulatory norm of interfacing the EHR system with the LIS of the connected laboratory.

“Interoperability is the driving force behind offering incentives for EMR/EHR adoption as per the ARRA/HITECH Act (2009).” In order to stay competitive in the healthcare industry, laboratories and clinician/hospital EHRs call for a dedicated connection to facilitate meaningful use transfer of lab information.

ADDRESSING THE BUSINESS CHALLENGE

The customer wanted to reduce the time taken for lab data entry at the doctor office. After evaluating the possibilities and techniques, the customer approached ViSolve Healthcare IT to assist in integrating their EHR with the LIS of the connected laboratory.

ViSolve Healthcare IT understood the customer requirements and implemented the Interoperability solution between the hosted environment and the laboratory. As per the customer requirement, ViSolve team set up the interoperability solution on a Linux server and created an interface to the laboratory LIS. Our team also set up the SSL functionality to encrypt the data from the interoperability solution to the EHR instance.

The interoperability solution had the capability to read the lab results (in HL7 format), parse the header information and identify the corresponding doctor office, convert the HL7 information into easily recognizable text format, and update the corresponding EHR instance on the hosted environment. This saved considerable data entry time and improved the focus on patient care.

“Manually submitting and entering lab reports was cumbersome, erroneous both on the Hospital Laboratory and the Physician Practice. Now Patient care is much safer and easier. Appreciate your outstanding commitment and domain expertise and response time.”

Systems Integrator, Hospital Lab & Cardiology Practice, Virginia

BUSINESS BENEFITS

- Availability of lab reports immediately upon a single click
- Doctors can view the lab result reports void of any errors
- Increased productivity of front office staff as a result of reduced waiting time for lab results
- Shift in focus towards patient care rather than data entry into the EHR system

ABOUT ViSolve. Inc,

ViSolve Healthcare IT is committed to serve hospitals and affiliated Physician Practices by providing them customized interoperable and vendor neutral healthcare IT services. Our services span from customized EHR/HIS Services, connecting disparate systems with a hospital and its network, enabling secure HIE between a hospital and its affiliated practices, providing third party consulting, implementation and support for top commercial and open source Health IT Solutions and more.

For more information regarding our services, please visit our website www.visolve.com, or write to us at services@visolve.com.

